LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of the claims in the application.

- 2. (Cancelled)
- 3. (Currently Amended) A method of treating impaired cognitive performance in a <a href="https://example.com/htman.c
- 4. (Cancelled)
- 5. (Withdrawn) The method of claim 3, wherein the condition is a learning deficit.
- 6. (Withdrawn) The method of claim 3, wherein the condition is attention deficit.
- 7. (Withdrawn) The method of claim 3, wherein the condition is epilepsy.
- 8. (Withdrawn) The method of claim 3, wherein the condition is schizophrenia.
- 9. (Withdrawn) The method of claim 3, wherein the condition is Alzheimer's disease.
- 10. (Withdrawn) The method of claim 3, wherein the condition is an amnesiac syndrome.
- 11. (Withdrawn) A method for determining the susceptibility of a subject to a condition selected from the group consisting of: impaired cognitive performance, learning deficit, cognition deficit, attention deficit, epilepsy, schizophrenia, Alzheimer's disease and an amnesiac syndrome, wherein the method comprises the steps of:

- (a) removing from the central nervous system of the subject a sample comprising Fibroblast Growth Factor-18 mRNA, and
- (b) quantitating the Fibroblast Growth Factor-18 mRNA in said sample; wherein the level of said Fibroblast Growth Factor-18 mRNA is indicative of said subject's susceptibility to said condition.
- 12. (Withdrawn) The method of claim 11, wherein the sample is obtained from the hippocampus.
- 13. (Withdrawn) A method for determining the pharmacological effect of a compound on the level of FGF-18 gene expression, comprising the steps of:
 - (a) growing one or more cultures of neural cells;
 - (b) measuring the level of FGF-18 gene expression in the cultured neural cells;
 - (c) contacting the compound with at least one of the cultures of neural cells; and
 - (d) measuring the level of FGF-18 gene expression in the cultured neural cells that have been contacted with the compound;

wherein a difference in the level of FGF-18 gene expression that correlates with exposure of the neural cells to the compound is indicative of a pharmacological effect of said compound.

- 14. (Withdrawn) A method for identifying memory-related proteins, comprising the steps of
 - (a) providing naïve, swimming control, and water-maze trained animals;
 - (b) extracting mRNA from the hippocampus of the naïve, control and trained animals;
 - (c) determining differential gene expression levels by quantitating and comparing mRNA levels in naïve, control and trained animals so as to identify "memory related genes"; and
 - (d) quantitating protein levels reflecting memory related genes for both control and target groups.

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- 15. (Withdrawn) The method of claim 14, further comprising the step of validating the differentially expressed genes quantified in step (d) by quantitative RT-PCR.
- 16. (Withdrawn) The method of claim 15, wherein the quantitation of mRNA is carried out by a method selected from the group consisting of: Northern blotting, nuclease protection assays, array hybridization, RT-PCR, and hybridization with labeled oligonucleotide probes.
- 17. (Withdrawn) The method of claim 16, wherein the quantitation of mRNA is carried out by array hybridization.
- 18. (Cancelled)
- 19. (Currently Amended) The method of claim 1, wherein the <u>human</u> subject suffers from impaired cognitive performance.
- 20. (Currently Amended) The method of claim 1, wherein the composition <u>FGF-18</u> is administered in an amount effective to increase a brain FGF-18 level in said <u>human</u> subject.
- 21. (Currently Amended) The method of claim 1, wherein the eomposition <u>FGF-18</u> is administered in an amount effective to increase a hippocampal FGF-18 level in said <u>human</u> subject.